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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/514,928	02/28/2000	Peter J. Wilk	W07-428	9269
7590 11/15/2005		EXAMINER		
R Neil Sudol			JAWORSKI,	FRANCIS J
Coleman Sudol	Sapone, P.C.			
714 Colorado A	venue		ART UNIT	PAPER NUMBER
Bridgeport, CT	06605-1601		3737	
			DATE MAILED: 11/15/2003	5

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary Office Action Summary Office Action Summary Office Action Summary Art Unit Jaworski Francis J. 3737 Art Unit Jaworski Francis J. 3737 Art Unit 3737 As HORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisiones of 37 CFR 1.136(a). In no event, however, may a reply be timely filed of the date of the Communication of the maximum statutory period will apply and will expire SIX (5) MONTHS from the mailing date of this communication. Failure to reply wills the state or extended period for reply will, by state, cause the application to become ABADONED (3) St. 26, 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any sentended period from the mailing date of this communication. 1) Responsive to communication(s) filed on 19 August 2005. 2a) This action is FINAL. 2b) August 2005. 2a) This action is FINAL. 2b) August 2005. 2a) This action is FINAL. 2b) August 2005. 2a) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 13-21,31-36,39-42 and 46-50 is/are pending in the application. 4a) Of the above claim(s) is s
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a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No
3. Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
Attachment(s)
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)
Paper No(s)/Mail Date 6)

Application/Control Number: 09/514,928

Art Unit: 3737

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 13 – 21 and 31 – 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wilk and Holmberg as argued against these claims in the prior Office action, further in view of Klahr (US3805596) or Wright et al (US5793701), alone or further in view of Sumanaweera et al (US6503204). The former are applied as in the prior Office action and whereas they are silent as to coherent three-dimensional imaging, it would have been obvious in view of Klahr col. 6 items c,d and cols. 10-11 bridging to provide volume scan obtainance using coherence across transmissions in order to increase the effective aperture and improve resolution. It would also have been

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obvious in view of Wright et al abstract and col. 28 lines 19-28 to maintain phase coherency since this enables the production of synthetic scan lines during volume image data reconstruction. Sumanaweera et al further teaches use of a two-dimensional array for same, see cols 7-8 bridging therein.

Claims 39-42 and 46 – 50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wilk and Holmberg as applied to claims 39-42 in the prior Office action, and further in view of Phillips et al (US6213947). Whereas the former do not explicitly state that spatial encoding may be used, it would have been obvious in view of the latter to provide a system and method for spatially encoding pulses for 3D volume acquisitions since this allows high resolution with diminished transit time deadzones.

Response to Amendment Arguments

Since amendatory features directed to coherent image data assemblage and to spatial encoding to enhance 3D volumetric data acquisition were well-known in the art as evidenced by the newly cited references, patentability is opposed based upon these features. Since rejection bases have been changed for unamended claims this action is not made final however the case should be prepared for final action.

Any inquiry concerning this communication should be directed to Jaworski Francis J. at telephone number 571-272-4738.

FJJ:fjj

11102005

Francis J. Jaworski Primary Examiner

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